

INCH-POUND

A-A-50371A

MARCH 4, 1994

SUPERSEDING

A-A-50371

MARCH 20, 1989

COMMERCIAL ITEM DESCRIPTION

BOOTS, FIREMEN'S

The General Services Administration has authorized the use of this commercial item description in preference to MIL-B-2885.

ABSTRACT. This document covers two types of firemen's boots. The type I boots are intended to be worn by damage control personnel in shipboard environments, and the type II boots are intended to be worn with the damage control fire fighter's coverall and the combination structural/proximity coat and trousers.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Personnel Support Center, Clothing and Textiles Directorate, Attn: DPSC-FSSD, 2800 South 20th Street, Philadelphia, PA 19101-8419, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 8430

DISTRIBUTION STATEMENT A.

Approved for public release;  
distribution is unlimited.

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## SALIENT CHARACTERISTICS

General description. The firemen's boots shall be a three-quarter length and a knee (bunker) length style of standard vulcanized construction meeting minimum design and performance requirements of NFPA 1974, Protective Footwear for Structural Firefighting, 1992 edition. Design features shall include a steel box toe, spike-resistant insole, cleated outsole, non-slip heel, and a shin reinforcement. The type I boot shall be fitted with a top strap and buckle, and the type II boot shall have pull-on leg loops (see Figure 1).

Classification. The boot shall be supplied in two types:

- Type I - Three-quarter length
- Type II - Knee length

Sizes. Both types of boots are supplied in sizes 5 to 13 (inclusive), whole sizes only.

Materials

Rubber compound. The rubber compound shall be natural, synthetic or a blend of both. The upper part of the boot shall be black with white or yellow bumper toe caps and foxing. Tensile strength (ASTM D-412) requirement for the upper compound shall be not less than 1100 pounds per square inch and ultimate elongation (ASTM D-412) not less than 350 percent.

Leg and top lining material. The leg and top linings shall consist of a para-aramid/aramid blend containing 35 to 50 percent para-aramid. The remaining percentage should be aramid with the following characteristics:

Weight (minimum)	5.5 oz/sq yd
Warp (gauge) (minimum)	11 per inch
Weft (stitches) (minimum)	14 per inch

Leg and top alternate lining material. The alternate lining material for the leg and top shall be a blend of 35-50 percent para-aramid with the remaining percentage aramid. The fabric shall be stitch bonded fleece with a minimum gauge of 18 per inch and minimum 16 stitches per inch. The weight shall be 4.5 ounces/square yard minimum.

Shin reinforcement. The shin reinforcement shall be either an inner shin guard made of a minimum .100 hardened rag or an exterior shin protector made of heavy knurled rubber.

Construction. The boots shall be constructed in accordance with the contractor's patterns and lasts, utilizing the applicable component parts listed herein. Sequence of construction shall be

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in accordance with the contractor's standard practice. All overlapped parts shall be firmly rolled or pressed before vulcanized.

Height measurements. The inside height of the type I boot shall be not less than 29 inches. The inside height of the type II boot (excluding leg loops) shall be not less than 13 inches. The height shall be measured on a finished boot at the inside heel area to the top, back of the boot.

### Labels

ANSI labeling. All boots shall be labeled to indicate that they conform to class 75 safety toe requirements outlined in the most current American National Standards Institute's Standard Z41. The following label shall be legibly stamped or printed with indelible ink of a contrasting color:

ANSI Z41  
I/75 C/75

Contract number, NSN, and size label. Each boot shall have a label containing the contract number, NSN, and size. The information shall be legibly printed or stamped with indelible ink of a contrasting color on the inside of the boot approximately 1 inch from the top edge, or on the outside of the boot just below the leg loop.

Label/tag. Each item shall be individually bar-coded with the type VII or VIII, class 17 label/tag of DDD-L-20. This label/tag shall be located so that it is completely visible on each item and causes no damage to the item.

Workmanship. The finished boot shall conform to the quality of product established by this document. The occurrence of defects shall not exceed the contractor's own quality assurance standards and the quality assurance standards defined by the technical data in the bid package.

Approved styles. The following styles meet the requirements of this description:

Type I	
Ranger	- Style 41280A
Servus	- Style 11468
Type II	
Ranger	- Style 31280A
Servus	- Style 11467

Other manufacturers may submit their styles to the procuring activity for evaluation by the specification preparing activity

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and ultimate inclusion in this document, if approved.

Regulatory requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

#### QUALITY ASSURANCE

Certification. The contractor shall certify, and maintain substantiating evidence that the product offered meets the salient characteristics of this commercial item description, and that the product conforms to the producer's own drawings, specifications, standards and quality assurance practices. The Government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for under the provisions of the contract. Reliance on contractor quality assurance systems shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract.

Examination. When review of plant quality control performance by Government quality assurance personnel indicates defective products and/or inadequacy of plant quality control, they shall reserve the right to establish and impose tighter plant controls and/or Government verification sampling and rejection criteria when warranted by either the frequency or severity of the plant control inadequacy or the inferior products noted.

Defects. The product shall be examined for pairing, color not as specified, wrong style, inferior materials, and workmanship defects; distortion of product; wrinkles, pleats or excess fullness in linings; operation not properly performed; any hole, cut, tear, spot or stain (outside); label (when required) missing; required markings missing, incorrect, or illegible; measurements (when required) not as specified; bar code omitted or not readable by scanner; human-readable interpretation (HRI) omitted or illegible; bar-coded type not as specified; code density not as specified.

Dimensional examination. The finished boots shall conform to the dimensions specified, type I or II. Any dimension that is not within the established tolerance shall be classified as a defect. The sample unit shall be one pair of boots. Unit of issue is one pair.

#### PACKAGING, PACKING AND MARKING

Packaging, packing, and marking. The preservation, packing, and marking shall be as specified in the contract or order.

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NOTES

Acquisition requirements. The acquisition document shall specify the following:

- (a) Title, number and date of this document
- (b) Type and sizes required
- (c) When palletization is required

Additional sizes. The approved suppliers may also commercially supply boots in additional sizes to those provided by this document.

Source of Government documents. Copies of military and Federal documents are available from:

Standardization Documents Order Desk  
Bldg. 4D  
700 Robbins Avenue  
Philadelphia, PA 19111-5094

Source of non-Government documents

ASTM-D 412 - Rubber Properties in Tension

(Applications for copies should be addressed to American Society For Testing and Materials, 1916 Race Street, Philadelphia, PA 19103-1187.)

Custodian:  
Navy - NU

Civil Agency Coordinating  
Activity:  
GSA - FSS

Preparing Activity:  
DLA - CT

Project No. 8430-0419

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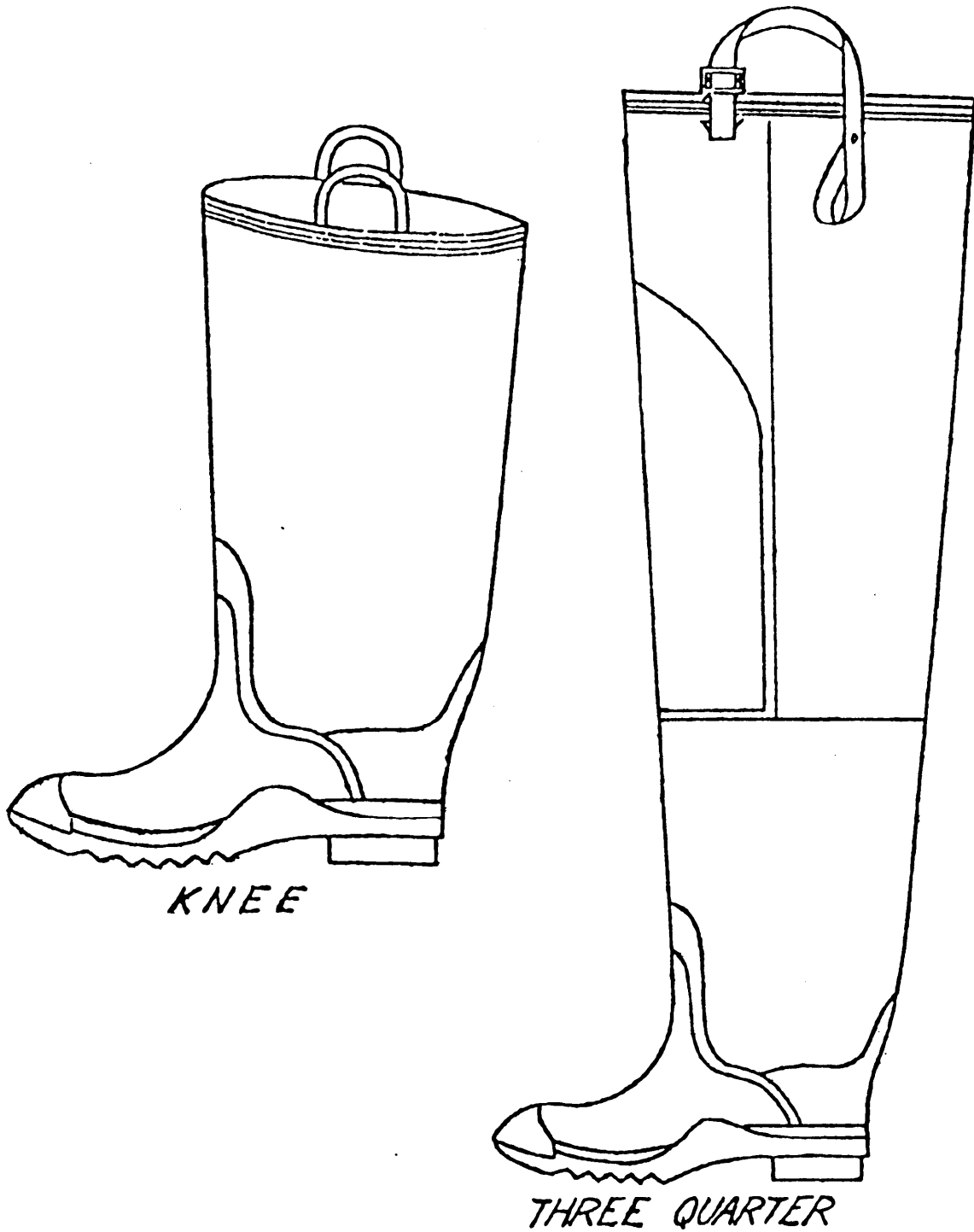


Figure 1 - Boots, Firemen's

